

HANDHOLE COVER & FRAME - GROUNDING DETAIL

(NOT TO SCALE)

(2) 1/2" x 1 1/4" STAINLESS STEEL BOLT WITH SPLIT LOCK
WASHER AND NYLON INSERT LOCKOUT WELDED TO
FRAME AND TO COVER. (TYPICAL)

HEAVY DUTY COPPER COMPRESSION
GROUNDING TERMINAL. (TYPICAL)

EXISTING HANDHOLE GROUNDING CABLE (PAID FOR SEPARATELY)

EXISTING HANDHOLE COVER & FRAME — GROUNDING DETAIL

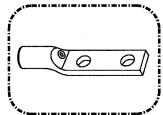
(NOT TO SCALE)

## NOTES:

## | F.A.P. | SECTION | COUNTY | TOTAL SHEET | NO. | | 353 | 42 RS | COOK | 31 | 29 | | STA. | TO STA. | | FED. ROMO DIST. NO. | ILLINOIS FED. AID PROJECT

GROUNDING SYSTEM

- 1. THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR
  TYPE KLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN
  RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED
  IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED.
  ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE
  HAMDHOULE, POST, MAST ARM, CONTROLLER, ETC., GROUND ROD SHALL BE
  3/4" DIA. x 10"-0" (20mm x 3.0m) LONG, COPPER CLAD. ONE GROUND ROD
  SHALL BE INSTALLED AT ALL POST FOUNDATIONS, POLE FOUNDATIONS,
  CONTROLLER CABINET FOUNDATION AND ELECTRICAL SERVICE INSTALLATION
  AS INDICATED ON THE CABLE PLAM. IF THERE ARE ANY SPECIAL CONDITIONS
  SUCH AS SUB-SUFFACE CONDITIONS ON INSTALLATION PROBLEMS, THE RESIDENT
  ENGINEER SHALL BE NOTIFIED OR CONTACT THE BUREAU OF TRAFFIC,
  ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE AT
  1847) TOS-4139.
- THE NEUTRAL CONDUCTOR AND THE GROUND CONDUCTOR SHALL BE CONNECTED IN THE SERVICE INSTALLATION. AT NO OTHER POINT IN THE TRAFFIC SIGNAL SYSTEM SHALL THE NEUTRAL AND GROUND CONDUCTORS BE CONNECTED.
- ALL EQUIPMENT GROUNDING CONDUCTORS SMALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
- 4. THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.



HEAVY-DUTY COMPRESSION TERMINAL IBURNOY TYPE YGHA OR APPROVED EQUAL)

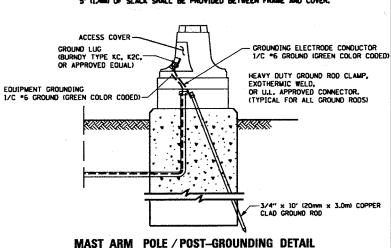


CONTRACT NO. 60A86

3/4" (20mm) HEAVY-DUTY GROUND ROD CLAMP (BURNDY TYPE CRC OR APPROVED EUAL)

## MOTES:

ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES
6.5' (2,0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES
13' (4,0m) OF SLACK SHALL BE PROVIDED BY DOUBLE HANDHOLES.
5' (1,4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



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REVISIONS		ILLINOIS DEF
NAME	DATE	ILLIMOID DE
CADD	5/30/00	
CADD	3/15/01	
BUREAU OF TRAFFIC	1/01/02	-
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ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE
DATE: 12/27/2006

DRAWN BY: RWP DESIGNED BY: DAD CHECKED BY: DAZ

TSO5
REVISION DATE: 01/01/02

DATE NAME SCALE NAME